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TC Art Unit: 1725

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FROM: Charles L. Gagnebin III

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Your Ref:
Application No. 10/645,347
Filed Date: August 21, 2003
Confirmation No.: 6740

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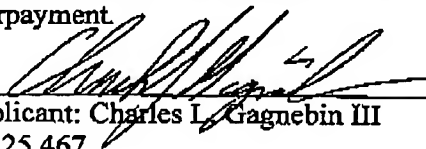
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PLEASE DELIVER DIRECTLY TO:
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FOR ENTRY

Enclosed for filing please find a: **STATEMENT OF SUBSTANCE INTERVIEW**

The Commissioner is hereby authorized to Charge Deposit Account No. 23-0804 for any additional filing fees associated with this communication or credit any overpayment.


Attorney for Applicant: Charles L. Gagnebin III
Registration No. 25,467

CLG:mcs/314879-1

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PATENT

Rev 06/04

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Notice of Allowance dated: November 17, 2004

Confirmation No. 6740

In re application : Atsushi Koide et al.
Application No. : 10/645,347
Filed : August 21, 2003
Confirmation No. : 6740
For : COMPOSITE METAL PRODUCT OF CARBON NANO
MATERIAL AND LOW MELTING POINT METAL AND
METHOD OF PRODUCING THE SAME
Examiner : Ing-Hour Lin
Attorney's Docket : AK-N-421XX

TC Art Unit: 1725

I hereby certify that this correspondence is being sent via
facsimile to Examiner Ing-Hour Lin, TC Art Unit 1725, Fax No.
(703) 872-9306, on 12-14-4.

By: 

Charles L. Gagnebin
Registration No. 25,467
Attorney for Applicants

STATEMENT OF SUBSTANCE OF INTERVIEW

Via Facsimile
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In response to the Interview Summary received with the Notice
of Allowance dated November 17, 2004, an agreement was reached
with the Examiner in a telephone conference discussing claims 1-4
on November 10, 2004, as follows:

WEINGARTEN, SCHURGIN,
GAGNEBIN & LEBOVICI LLP
TEL. (617) 542-2290
FAX. (617) 421-0313

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Claims 1-2 were canceled; and
Two new dependent claims 5 and 6 were added.
The claims now read as follows:

CLAIMS

1. (Canceled)
2. (Canceled)
3. (Previously Presented) A method of producing a composite metal product, comprising the steps of:
injection molding a carbon nano material consisting of a carbon nano tube and a plasticized resin binder to form a preliminarily molded member shaped for a product;
degreasing the preliminarily molded member by heat treatment and forming a preliminarily molded porous member comprising the carbon nano material;
inserting the preliminarily molded porous member into a cavity of a mold shaped for the product;
injecting a molten low melting point metal material into the cavity;
impregnating the preliminarily molded porous member with the low melting point metal material by injection pressure; and
obtaining the composite metal product comprising the low melting point metal material and the carbon nano material integrally composited with.
4. (Previously Presented) The method according to claim 3;

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WEINGARTEN, SCHURGTN,
GRACIEBIN & LEBOWICZ LLP
TEL. (617) 542-2220
FAX. (617) 451-0313

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wherein the preliminarily molded member is injection molded by a screw type preplasticization injection machine comprising a plasticizing device for plasticizing the carbon nano material and the resin binder and a injection device for injecting the plasticized material, the plasticizing device and the injection device being disposed separately, both the devices are communicated with each other through a flow path, and the plasticized material is injected after metering by the injection device.

5. (new) The method according to claim 3, wherein the low melting point metal is a metal or alloys of the metal selected from the group consisting of magnesium (Mg), tin (Sn), aluminum (Al), copper (Cu), lead (Pb), and zinc (Zn).

6. (new) The method according to claim 4, wherein the low melting point metal is a metal or alloys of the metal selected from the group consisting of magnesium (Mg), tin (Sn), aluminum (Al), copper (Cu), lead (Pb), and zinc (Zn).

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REMARKS

The Examiner is encouraged to telephone the undersigned attorney to discuss any matter that would expedite allowance of the present application.

Respectfully submitted,

ATSUSHI KOIDE ET AL.

By: 

Charles L. Gagnebin III
Registration No. 25,467
Attorney for Applicants

WEINGARTEN, SCHURGIN,
GAGNEBIN & LEOVICI LLP
Ten Post Office Square
Boston, MA 02109
Telephone: (617) 542-2290
Telecopier: (617) 451-0313

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